

Patent claims

1. An electronic locking device having at least one lock unit and a security key (1), having at least one control circuit and a transmitting and receiving circuit which transmits information signals to the control circuit of the other respective unit, and having at least one data storage module (7) which has an antenna (7a), wherein the security key (1) has a mechanical part (3) with a shank (4), which has control areas (5), and a head (12), and the data storage module (7) is inserted into a recess (13, 14, 15) in the mechanical part (3), characterized in that the security key (1) is formed in such a way that it can be or is fitted with at least one second data storage module (8, 9) which has its own antenna (8a, 9a) and uses a different frequency to that of the data storage module.

2. The locking device as claimed in claim 1, characterized in that a cap (2) into which at least the second data storage module (8, 9) is or can be inserted is placed on the mechanical part (3).

3. The locking device as claimed in claim 2, characterized in that the cap (2) is integrally produced from plastic.

4. The locking device as claimed in claim 2 or 3, characterized in that the cap (2) is pushed onto the mechanical part (3) via the shank (4).

5. The locking device as claimed in one of claims 2 to 4, characterized in that the head (2) of the mechanical part (3) is smaller at the bottom and at least the second module (8, 9) is arranged in this region at the side, next to the shank (4).

6. The locking device as claimed in claim 5,

characterized in that, at the side, next to the shank (4a), the cap (2) has at least one pocket (6) for accommodating at least the second data storage module (8, 9).

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7. The locking device as claimed in one of claims 1-6, characterized in that the cap (2) is open at an upper end before being placed onto the mechanical part (3) and at least the second data storage module (8, 9) can be inserted into the cap (2) through this opening.

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8. The locking device as claimed in one of claims 2-7, characterized in that the cap (2) is latched onto the mechanical part (3).

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~~9. The locking device as claimed in one of claims 1-8, characterized in that, on at least one narrow side (10), the mechanical part (3) has a milled section (14) for accommodating the antenna (7a) of the first data storage module (7).~~

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10. The locking device as claimed in one of claims 1-9, characterized in that the first data storage module (7) is intended to control the lock unit, and the second data storage module (8, 9) is intended to control a further unit and, in particular, an access control unit, a time recording unit or an automatic vending machine.

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11. Security key for an electronic locking device, having a mechanical part (3) which has a shank (4) with control areas (5) and has a head (12) which has a recess (13, 14, 15) into which a first data storage module (7) is inserted, characterized in that said key is or can be fitted with at least one second data storage module (8, 9), and this second data storage module (8, 9) has its own antenna (8a, 9a) and uses a different frequency to that of the first data storage

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module (7).

12. The security key as claimed in claim 1,
characterized in that a cap (2) which has at least one
5 recess (6) for accommodating at least the second data
storage module (8, 9) is placed on the mechanical part
(3).

13. The security key as claimed in claim 12,
10 characterized in that the cap (2) is produced from
plastic.

14. The security key as claimed in claim 12 or 13,
characterized in that the cap (2) is pushed onto the
15 mechanical part (3) from the shank.

15. The security key as claimed in one of claims 12-
14, characterized in that the cap (2) has laterally
protruding regions (2a) beneath the head (12) of the
20 mechanical part (3), and at least the second data
storage module (8, 9) is arranged in this lateral
region (2a).

16. The security key as claimed in one of claims 12-
25 15, characterized in that the cap (2) has at least two
pockets (6) into each of which a data storage module
(8, 9) is or can be inserted.